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ALFALFA (Medicago sativa).

[Instructions adapted to the sand-hill section of Nebraska.]

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Native dry-land strains.—Seed of this class of alfalfa is secured from nonirrigated fields in the semiarid sections of the country. It is usually ordinary alfalfa which has been grown for years under dry-land conditions. In this way the drought-resistant plants alone have survived, and such seed is preferable if it can be obtained.

Turkestan alfalfa.—This variety was secured originally from Turkestan and has been found to be generally more drought resistant than the ordinary alfalfa. It is not usually equal to ordinary alfalfa under irrigation or in sections with sufficient rainfall for full crops of ordinary alfalfa; in the sand-hill region ordinary alfalfa usually gives better yields.

Sand lucern.—A hardy, drought-resistant strain, adapted to a wider range of soils than ordinary alfalfa. It is proving equal to or superior to any of the strains now being grown for drought or cold resistance. In testing this or the other strains it is important that they all be seeded side by side under the same conditions. It is also very desirable that a plot of ordinary alfalfa be sown alongside the other plots to serve as a basis of comparison.

Locating the field.—The best soil obtainable should be chosen for the alfalfa field. Excepting in the wet valley region the best location will invariably be in the bottom of the valley where the soil contains the most humas and the moisture supply is the most constant. In the wet valleys the prospective alfalfa field should be located where the water table will be at least 4 feet under the surface of the ground. There have been successful fields where the distance to water was less in west seasons, but the chances are very much against such a field. A well-drained piece of land with the water 5 to 12 feet beneath the surface is best. Too much water is as ruinous to alfalfa as too little, and even more so.

Preparation of the soil.—A field which has grown potatoes the year previous and has been quite heavily manured is v

snother crop has germinated, and this second crop killed by harrowing with a spike-conductor. Throughout central and assen, Rebrasha to country a scaper, and the state of the

H. N. VINALL, Scientific Assistant in Agrostology.

